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FIG.\_ 1A



RAMAVENCE HVAEVENCE HHERSVED --- GEDAAPPSHEMRVEGNLO
RAMAVENCE HVAEVORVERCE HHERSVED --- GEDAAPPSHEMRVEGNLO
RAMPTEME POEVVERCE HRESHES --- GEDAAPPSHEMRVEGNLO
RSTPVESAPOFA QECVYRCINHEFSHKES -- DGDLKEHTRPHIIRCANOVAR
RATPVESOTOHFORDYHREYGHRHPODOS --- NKGVAPHTFOHIIRCTNDNA
RVMPMREEDRYVOERVHRETCHHOOLTDPT-NHNVSEMVAQHIIRCENNNNA
RSTVVESDETQAEKRVERCVOHFHESSTSGIQTEIAKNVLHSSREIGTOG --SEGLAPPO --GEDAAPPS hvgevv KQSQ回 fvRatpvys SPPP-RGSILTR RPPP-SGCQIR HRPP-NPLFITR NRPQNLPLYTR KADPERRLEV YQKA-PHMEVR SKMPIQPINITR SKMEIQP Ω Human\_p53 Xeno\_p53 Squid\_p53 CPB\_p53 Helio\_p53 Dros\_p53 Trib\_p53A Trib\_p53B ngu Cons

GMNRRALAMI ---RRETSMV GMNRRPI gmnrrpi CLGSCWG-GCLGSCWG-GCKNSCPSPG SCMG-0 YCGKVDM---ADSWYSVLVEF----MRTSSESCSHAYQFSCKNSCAT-CGNAQGKGISERFSVVVPLNMSRSVTRSGLTRQTLABKFYCQNSCHG-nscmg -PQVGTECTTVLYNXMC -PQAGSEWVVNLYQFMC -PQTGTESVREITEFVC -PQVGEDVVKEFTQFYC ynfm b Ъď 1 1 VEYLDDRNT---FRHSVC AYYHEDKYS---GRQSVE AYLGDKSKN---ERLSVV HYEGDKNTG---TRINHV OYKGDKNAG---KRLS--VYYCGKVDM---ADSWYS vyygdk Human\_p53
X no\_p53
Squid\_p53
CPB\_p53
Trib\_p53A H lio\_p53 Dros\_p53 Trib\_p53B nsu Con

## FIG.\_ 1B



TLEDS SGNILGERNSFEVR TLETPQGLITGERRCFEVR TLEK-DNQVIGERRAVEVR TLEDNQGTITYGRRTINVR TLEDNKGEVFGRRLVGVR	Thedamentherokvoar	NTSSSP-QPKKKPLDGEYFTTQTRGRERFEMFR PPSSEPPLPKKRLVVDDDEEIFTTRTKGRSRYEMIK TNDITKITPKKRKIDDECFTTKVRGRENYETLC PSKKPMQTQAENDTKEFTLTTPTVGRHNEQNVL DERRVVPQGSSDNKIFALNTHTPGKKNYLQAL	KEPGGSRAHSSHLKSKKGQSTSRHKKLMFK QAPIGRLTSLPSSSNGSQDGSRSSTAFSTSDSSQVNSSQNNTQMVNIGGD-DSADKNCYN
n n ∢p	elio pusa ros pss ns pss	Human_p53 N Xeno_p53 H Squid_p53 L CPB_p53 K Trib_p53A N Trib_p53A N Trib_p53B - Helio_p53 -	onsensuman ps duid ps duid ps duid ps duid ps duid ps duid ps duib duib duib duib duib duib duib duib

FIG.\_1C



KCEPTENTIAQWLTKLGLQAYIDNFQQKGLHNMFQLDEFTLEDLQSMRIGTGHRNKIWKS	LLDYRRLLSSGTESQALQHAASNASTLSVGSQNSYCPGFYEVTRYTYKHTISYL
Human_p53 X no_p53 Squid_p53 Trib_p53A Trib_p53A Trib_p53B H lio_p53B Cons_p53	Human_p53 Xeno_p53 Squid_p53 CPB_p53 Trib_p53A Trib_p53B Helio_p53 Dros_p53

FIG.\_1D